

**Foxi3 (mouse) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3479a****Specification**

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**Foxi3 (mouse) Antibody (internal region) - Product Information**

|                   |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| Application       | WB                                                                                             |
| Primary Accession | <a href="#">D3Z120</a>                                                                         |
| Other Accession   | <a href="#">NP_001094934.1</a> , <a href="#">232077 (mouse)</a> , <a href="#">502846 (rat)</a> |
| Reactivity        | Mouse, Rat                                                                                     |
| Host              | Goat                                                                                           |
| Clonality         | Polyclonal                                                                                     |
| Concentration     | 0.5 mg/ml                                                                                      |
| Isotype           | IgG                                                                                            |
| Calculated MW     | 42015                                                                                          |

**Foxi3 (mouse) Antibody (internal region) - Additional Information****Gene ID** 232077**Other Names**

Foxi3; forkhead box I3; forkhead box protein I3

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Foxi3 (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Foxi3 (mouse) Antibody (internal region) - Protein Information****Name** Foxi3 {ECO:0000303|PubMed:23441037, ECO:0000312|MGI:MGI:3511278}**Function**

Transcription factor required for pharyngeal arch development, which is involved in hair, ear, jaw and dental development (PubMed: [24650709](http://www.uniprot.org/citations/24650709), PubMed: [26550799](http://www.uniprot.org/citations/26550799), PubMed: [26992132](http://www.uniprot.org/citations/26992132), PubMed: [30467319](http://www.uniprot.org/citations/30467319)). May act as a pioneer transcription factor during pharyngeal arch development (PubMed: [26550799](http://www.uniprot.org/citations/26550799), PubMed: [26992132](http://www.uniprot.org/citations/26992132)).

target="\_blank">26992132</a>). Required for epithelial cell differentiation within the epidermis (PubMed:<a href="http://www.uniprot.org/citations/26450968" target="\_blank">26450968</a>). Acts at multiple stages of otic placode induction: necessary for preplacodal ectoderm to execute an inner ear program (PubMed:<a href="http://www.uniprot.org/citations/26550799" target="\_blank">26550799</a>). Required for hair follicle stem cell specification (PubMed:<a href="http://www.uniprot.org/citations/26992132" target="\_blank">26992132</a>). Acts downstream of TBX1 for the formation of the thymus and parathyroid glands from the third pharyngeal pouch (PubMed:<a href="http://www.uniprot.org/citations/31412026" target="\_blank">31412026</a>).

#### Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00089, ECO:0000269|PubMed:30467319, ECO:0000269|PubMed:37041148}

#### Tissue Location

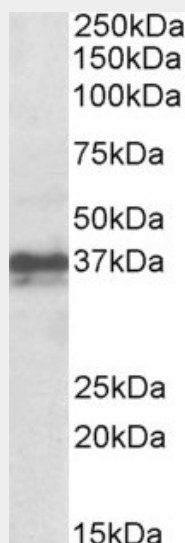
Specifically expressed in the epithelium in developing ectodermal appendages (PubMed:23441037). Expressed in pharyngeal endoderm and ectoderm (PubMed:24650709). Expressed in pre- placodal ectoderm (PubMed:26550799). Down-regulated as the otic placode is induced (PubMed:26550799). Expressed in teeth and hair follicles throughout embryogenesis (PubMed:23441037). Expressed in mammary glands only during the earliest stages of development (PubMed:23441037)

#### Foxi3 (mouse) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Foxi3 (mouse) Antibody (internal region) - Images



AF3479a (1 µg/ml) staining of Mouse Skin lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Foxi3 (mouse) Antibody (internal region) - References**

A mutation in hairless dogs implicates FOXI3 in ectodermal development. Dräger M, Müller C, Karlsson EK, Hytönen MK, Perloski M, Dolf G, Sainio K, Lohi H, Lindblad-Toh K, Leeb T, Science (New York, N.Y.) 2008 Sep 321 (5895): 1462. PMID: 18787161